

# Use of methyl pyruvate for the purpose of increasing muscle energy production.

## Abstract

The present invention relates to the use of methyl pyruvic acid (a methyl ester of pyruvic acid) and/or methyl pyruvate (methyl pyruvate is the ionized form of methyl pyruvic acid) for the purpose of increasing muscle energy production. When used as a dietary supplement, energizer or pharmaceutical, this anion can be formulated as a salt. *The methyl pyruvate compounds which can be used in the present method include:* (1) a salt using a monovalent cation (such as sodium or potassium methyl pyruvate) or (2) a divalent cation (such as calcium or magnesium methyl pyruvate) and analogs of these compounds which can act as substrates or substrate analogs for methyl pyruvate. Use of methyl pyruvate and/or methyl pyruvic acid can be effective when administered orally or infused on either a chronic and/or acute basis. In the following text, the terms "methyl pyruvate, methyl pyruvate compounds, methyl pyruvic acid" are used interchangeably.